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(71)Applicant : UBE IND LTD

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(72)Inventor : TAKAHASHI TORU

## (54) ION CONDUCTIVE SOLID ELECTROLYTE

(57)Abstract:

PURPOSE: To obtain a substance of high ion conductivity by hardening a composition by addition of specified substances to acryloyl denaturated polyalkylene oxide.

CONSTITUTION: An ion conductive solid electrolyte is obtained by hardening a composition composed of I: acryloyl denaturated polyalkylene oxide, II: block copolymer including polyalkylene glycol and polystyrene or polystyrene derivative and III: inorganic ion salt. As a fourth component of the composition polyalkylene glycol or its derivative expressed in the formula is included therein. In this formula, R, R' and R'' represent hydrogen or low grade alkyl radical and (n) represents an integer of 3 to 30. The obtained substance is of higher ion conductivity than conventional one, having forming workability and mechanical characteristic, and employed effectively as a solid electrolyte used for a primary battery, a secondary battery, a fuel cell, an electrochromic display element and the like.

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